# \* FE.NS 500/300 \*

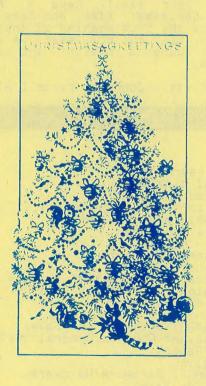
## Ouner's Operators Programmers

\*\* THE SOUTH PACIFIC MAGAZINE FOR VZ COLOUR COMPUTERS \*\*

NOVEMBER 1987. #18 A\$2.00.









## **EDITORIAL**



Greetings Readers, Olla.

middle am I am starting this Editorial in the middle of September, just after the football grand-finals, after the last of Australias skiable snow and during Hustnailas skiable snow and during Brisbanes Warana Festival. So what you say. Well it means that I am starting it before our nectic season gets under way. Brisbane-ites are beginning to become rather excited as the Horld Expo 1988 is taking shape. It is certainly going to be an event to remember. We have never been to one so we are really enthusiastic about one so we are really enthusiastic about it. It will effect everyone in some way. even to folk who do not attend. The high technology will "blow ones mind". Laser effects will be seen every night. About 38 countries are to be represented. countries are to be represented, boy what a

show.
For those interested, you can receive a swag of information by telephoning EXPO '88 on (07)840 1988, or write to:P.O. Box 1988, Southbank, QLD 4101. Australia.

Australia.

Before I get to VZ items, I must mention the proposed Australia Card. I realise some folk will say that LE'VZ is not the place to talk about such things, but I say that with this very important matter I have a duty to do so. We are NOT in favour of the Australia Card in this house-hold. Most OOPs should know that any data-base is not entirely secure.

I will mention just one incident in regards to the Commonwealth Electorial Commission's new computerised system. As recently reported in the press, there were about 500,000 people sent "Please explain" notices of why they did not vote. Our married daughter voted with her husband and received one of these notices. Was she hopping mad!

hopping mad!!

nopping mad!!
Of course the "Hackers" would have a tield day wouldn't they. I am sure I wouldn't want my data being manipulated, would you? Did many folk read in the press about a notorious "Hacker" called Blue Thunder? I wrote a short item shout him in LE'VI #12 June 1982, warning semple not to send morey to an A.P.O. Box number. It referred to Calestron Softwars. His court case was held on the 7th. of September in Malbourne to decide his case September in Melbourns to decide his case. There were many counts of fraud to answer, amounting to around \$4600.00. Much of his

amounting to around \$4400.00. Much of his hacking was via Westpac Mastercard. What do you think of that?

On page 1J I have printed a bigger list of folk who have volunteered to answer your questions on most aspects of VZ computing. I find that I just do NOT have the time to answer most technical, hardware and programming quirles. Please contact and programming quiries. Please contact these folk directly. Contact the one/s who relate to your problem. Always enclose an S.A.S.Envelope for written replies. Telephone at a reasonable time.



We will be combining our Christmas Mini-Expo with the BVZUM on Saturday the 5th. of December at the location of the BVZUM. WHICH IS:Capalaba State High School, School Rd., Capalaba. GLD.
See report elswhere in this LE'VZ. This one will be bigger and better than the last Mini-Expo. I will have a video unit in operation to keep the "non-computerists" occupied. See page 8 for more details.

Next year is certainly going to be an exciting one with EXPO 88 and our Bi-Centenial celebrations.

Finally there is the most important celebration of all almost with us again; that being Christmas. Marie and I wish that you and your family have a happy and joyious Christmas time, and hope that you experience the true meaning of this special occasion. Last but not least, we also wish you and yours a healthy and happy New Year 1988.

GOD bless. John and Marie D'Alton.

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LE'VZ 200/300 DOP IS PUBLISHED BY MR J.C.E. D'ALTON OF 39 AGNES ST, TOOWONG, QLD. AUSTRALIA. TELEPHONE (07)371 3707.

OUR QUICKWRITE WORD PROCESSOR IS USED EXTENSIVELY.



### THREE YEAR INDEX

## LE'VZ FROM #1 JUNE '84 TO #17 AUGUST '87.

This index covers from our first LE'VZ 200 00P which

was only a single A4 sheet to the previous LE'VI 200/300 DDP

#17 August.

As mentioned on page 11 of this LE'VZ, back issues are available from #B to the current issue. If there is a particular article or item in the first seven issues that you would like, please see if you can obtain/borrow that LE VZ to enable you to get the item that you are after. Failing that, I may be able to copy that item ONLY for you at 20 cents per A4 page.

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## BOB KITCH'S VIDED ARTICLE.

I am sorry to announce that Bobs' article that was printed in LE'VZ #13 and #14 has to end there. There is quite a lot more to it, but due to unforeseen problems I can't continue it. For people who want to follow his article up, please refer to Australian Electronics Magazines issue September and October 1986. (J.D.)



#### FOR VZ200/VZ300. DIGITAL *DISPLA*Y

By Frank Rees.

27 King St., BOORT. VIC 3537.

When I was studying the Dream 6800 computer, a programme to use the Dream as a frequency meter was published. It was in written in a language called CHIP 8 and 6800 based on a similar programme for CHIP 8 computers. The RCA VIP which was CHIP 8 and 1802. The large characters of CHIP 8 made a wonderful digital display which can be read across the room and I used it in final adjustments to Dream F.S.K. tape system 1200/2400 Hz frequency.

More recently I saw but did not fully read a similar programme for the Apple in Australian Electronics Monthly by "Dreamer" friend Mr.Roger Graham, and now an Amstrad

version by another hobby friend, Mr.Peter Lukes, which was also published in AEM. This and a letter from a VZ owner friend, Mr.Graeme Knight in Bendigo got me friend, Mr. Braeme Knight in bendigo got me thinking. How about one for other computers, but with the big character set of CHIP 8 or better. The VZ, MC10 AND CD CO have a lot in common including the 6847 sound and video chip, so my first thought was to write a display programme for all, then write a fractionary measuring routing and hardware in frequency measuring routine and hardware in turn. Naturally the display programme would have many other uses plus could be used to show how a multi-character set could be prepared for a given purpose. Where to start?

I decided to use the S64 A 2X2 graphic mode and a 5X7 matrix using 3X4 of the 2X2 characters in C64 graphic set. My pocket computer, the first Sharp/Tandy provided a set of characters to model from, and 0 to 9 plus decimal point was made the minimum

requirements for the project.
At this point it would be best to look at the illistration of the numeral three (3):

and see how the code was prepared.

A string of these large characters can be added as seen in the programme, each of the large numbers is three characters of graphic left to right and there are four lines down for each number. Look at data lines 1030 to 1033. These four lines are required for the numeral three (3). The line number is used to help identify. The third number in line numbers mentioned is three then last is 0 to 3. This idicates first to last of screen character lines to build height of the numeral three (3). See fig. 1 again.

The characters are reas into the number array so that a simple formula N X 4 finds start of storage of four rows of three columns each for the required numeral to be displayed. Note that while the MC10 book and the VZ keyboard show graphic characters correctly, the MC 10 keyboard and the VZ correctly, the MC 10 Reyboard and the vabook shows the characters inverted.

A simple routine will get the code for

you. Try :

10 INPUT CH\$:PRINT ASC(CH\$):60T0

For the VI add:-5 COLOR 1

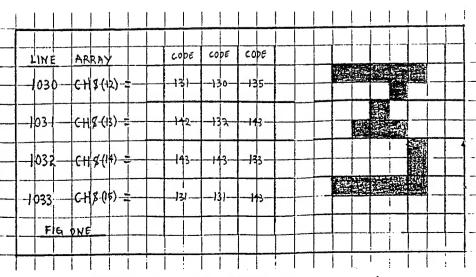
Now type the graphic character, see if its what you want and note the code number

I hope you enjoy the article. Letters are welcomed and promptly answered.

```
110 REM%%
 120 REMSS
                        DIGITAL DISPLAY UNIT
                                                                   FOR. MC-10, CO-CO, VZ ..
 130 REMSS
 140 REM%
 150 REMSS FRANK REES 27 KING ST. BOORT 3537 VICTORIA AUSTRALIA SS
 160 REM%%
 180 REM SG4 2X2 GRAPHICS
190 REM LARGE NUMBER DISPLAY
 200 REM LARGE NUMBERS 0-9 + DECIMAL POINT = 11 NUMBER CHARACTERS
 210 CLEAR200
220 DIM CHS(43) : REM ARRAY 0-43 = 44 ELEMENTS
230 REM 4 LINES PER NUMBER CHARACTER X 11 CHARACTERS = 44
240 BEG = 193: REM BEGINNING OF DISPLAY
250 LOC = BEG: REM LOCATION OF NEXT NUMBER CHARACTER TO DISPLAY
 260 CLS:GOSUB1000
260 CLS:GOSUB1000
265 COLOR 1: REM THIS LINE VZ ONLY
270 REM 8 CHARACTERS PER LINE MAX.
280 REM 4 LINE HIGH NUMBER CHARACTERS
290 REM GRAPHIC CHARACTERS 2X2
300 REM 32 GRAPHIC CHARACTERS PER LINE
310 REM 4 LINES HIGH NUMBERS
320 CLS:PRINT& 100,"ENTER A NUMBER 0-99999.99"
                   " ":: NPUT N
) 99999.99 THEN GOTO 320
 330 PRINT"
340 IF N > 99999.99 THEN GOTO 320
350 N=INT(N*100): REM FIX AT 2 AFTER DECIMAL POINT
360 N$=STR$(N):L=LEN(N$)-1:REM -1 TO REMOVE SPACE FOR + OR - SIGN.
370 N$=MID$(N$,2,L): REM SAVE ALL BUT THE SPACE FOR SIGN.
380 IF LEN(N$)(7 THEN N$="0""+N$:GOTO 380
390 LOC=BEG: REM START CENTER LEFT.
400 FOR X=1 TO 5: REM DISPLAY FIRST 5 NUMBERS COUNT.
410 N=VAL(MID$(N$,X,1))
420 GOSUB 530:REM DISPLAY LARGE NUMBER.
430 NEXT X
440 N=10:GOSUB 530: REM DISPLAY DECIMAL SOUNT.
440 N=10:GOSUE 530: REM DISPLAY DECIMAL POINT
450 FOR X=6 TO 7:REM DISPLAY 2 NUMBERS AFTER DECIMAL POINT
460 N=VAL (MIDS(NS, X, 1))
 470 GOSUB 530
480 NEXT X
 490 PRINT:PRINT" AGAIN YES/NO (Y/N)"
500 ANS=INKEYS:IF ANS="" GOTO 500
510 IF ANS()"N" THEN GOTO 320
 520 CLS:END
 530 FOR C=0T03
 540 PRINTALOC, CH$(C+NX4);
 550 LOC=LOC+32
 560 NEXT C
 570 LOC=LOC-(32X4)+4: REM NEXT X,Y
 580 RETURN
```

CONTINUED ...

590 END



Continued on page

```
1000 CH$(0) = CHR$(137) + CHR$(131) + CHR$(141)
1001 CH$(1) = CHR$(133) + CHR$(143) + CHR$(133)
1002 CH$(2) = CHR$(133) + CHR$(143) + CHR$(143)
1003 CH$(3) = CHR$(139) + CHR$(133) + CHR$(143)
1010 CH$(4) = CHR$(142) + CHR$(133) + CHR$(143)
1011 CH$(5) = CHR$(143) + CHR$(133) + CHR$(143)
1012 CH$(6) = CHR$(143) + CHR$(133) + CHR$(143)
1013 CH$(7) = CHR$(143) + CHR$(133) + CHR$(143)
1020 CH$(8) = CHR$(137) + CHR$(131) + CHR$(143)
1021 CH$(9) = CHR$(137) + CHR$(131) + CHR$(143)
1022 CH$(10) = CHR$(143) + CHR$(131) + CHR$(143)
1023 CH$(10) = CHR$(142) + CHR$(131) + CHR$(143)
1023 CH$(11) = CHR$(143) + CHR$(135) + CHR$(143)
1023 CH$(13) = CHR$(131) + CHR$(132) + CHR$(135)
1031 CH$(13) = CHR$(131) + CHR$(132) + CHR$(135)
1033 CH$(14) = CHR$(131) + CHR$(132) + CHR$(133)
1032 CH$(14) = CHR$(143) + CHR$(131) + CHR$(133)
1033 CH$(15) = CHR$(131) + CHR$(131) + CHR$(143)
1040 CH$(16) = CHR$(143) + CHR$(131) + CHR$(143)
1041 CH$(18) = CHR$(131) + CHR$(131) + CHR$(143)
1042 CH$(18) = CHR$(131) + CHR$(131) + CHR$(143)
1050 CH$(20) = CHR$(129) + CHR$(131) + CHR$(135)
1051 CH$(21) = CHR$(131) + CHR$(131) + CHR$(135)
1051 CH$(22) = CHR$(131) + CHR$(131) + CHR$(143)
1061 CH$(24) = CHR$(131) + CHR$(131) + CHR$(143)
1062 CH$(24) = CHR$(131) + CHR$(131) + CHR$(143)
1063 CH$(27) = CHR$(131) + CHR$(131) + CHR$(143)
1060 CH$(24) = CHR$(131) + CHR$(131) + CHR$(143)
1061 CH$(28) = CHR$(131) + CHR$(131) + CHR$(143)
1062 CH$(28) = CHR$(131) + CHR$(131) + CHR$(143)
1063 CH$(27) = CHR$(131) + CHR$(131) + CHR$(143)
1060 CH$(28) = CHR$(131) + CHR$(131) + CHR$(143)
1070 CH$(28) = CHR$(131) + CHR$(131) + CHR$(143)
1061 CH$(28) = CHR$(131) + CHR$(131) + CHR$(143)
1062 CH$(30) = CHR$(131) + CHR$(131) + CHR$(143)
1061 CH$(28) = CHR$(131) + CHR$(131) + CHR$(143)
1070 CH$(28) = CHR$(131) + CHR$(131) + CHR$(143)
1071 CH$(29) = CHR$(131) + CHR$(131) + CHR$(143)
1072 CH$(30) = CHR$(131) + CHR$(131) + CHR$(143)
1073 CH$(32) = CHR$(131) + CHR$(133) + CHR$(143)
1074 CH$(33) = CHR$(139) + CHR$(131) + CHR$(143)
1075 CH$(34) = CHR$(139) + CHR$(131) + CHR$(143
```

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JOHN DIALTON VSOFTWAREZ. 39 AGNES ST. TOOWONG. NOVEMBER 1987. QUEENSLAND. AUSTRALIA. 19HONE (07) 371 3707 LEIVZ 200/300 DOP IS PUBLISHED APPROXIMATELY EVERY THREE MONTHS.

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## PAREN FOR SP40/FP40 = PRINTERER OF FEEE.

Hr John Radziezowski informs me that these are available at The Calculator Shop in the Elizabeth Street Arcade in Brisbane, This could be helpful for local OOPs.

Size is 114 mm wide by about 50 mm diameter for A\$1.40 per roll.

(VZ).

## \* \* ENHANCED BASIC CLS \* \*

I made a boo-boo in-LE'VZ #17 in that I did not print all

of the M/L routine in Larry Taylor's article. This concludes his article. SORRY.

(J.D.)

```
; 2200.
0034 ; START OF THE PROCESSING
0035 ; ROUTINE FOR NEW COMMAND.
                              :SAVE ALL REGISTERS
0037 NVCT EXX
                              ; CHECK TO
                HL,1D5BH
0038
          LD
                              SEE IF THE
0039
           POP
                DE
                              : RETURN
0040
          DR
                              ; ADDRESS
0041
           SBC
                HL, DE
          PUSH DE
                              ; IS 1D5BH
0042
                              ; RESTORE ALL REGISTERS
0043
          EXX
                              ; IF NOT GO TO NORMAL PROCESSING
0044
           JΡ
                NZ,1078H
           PUSH HL
                              ; SAVE STRING ADDRESS
0045
                              GET NEXT VALUE FROM STRING
           CALL 1D78H
0046
                              ; IF NOT ZERO THEN CONTINUE
                NZ, CONT
0047
           JR
                              ; ELSE RESTORE STRING ADDRESS
0048 POP
          POF
                HL.
                              RETRIEVE ORIGINAL VECTOR
                DE, (VCTR)
0049
          1 D
                              ; AND JUMP
0050
          PUSH DE
                              ; TO IT
0051
           RET
                              ; CHECK FOR CLS TOKEN
0052 CONT CP
                84H
                              ; IF NOT FOUND RETURN TO CALLER
0053
           JR
                NZ,POP
                              MOVE TO NEXT VALUE IN STRING
0054
           INC
                HL
                              GET NEXT VALUE AFTER CLS TOKEN
0055
                A, (HL)
                              ; REDUCE IT TO RANGE O-B
0056
           SUB
                30H
                              ; IF ZERO THEN EXECUTE COMMAND
0057
           JR
                Z,EXEC
                              :LOAD B REG WITH UPPER LIMIT
0058
                8,8
                              ; CHECK IF A=B
0059 CMPR CP
                              ; IF YES THEN EXECUTE COMMAND
0060
           JR
                Z.EXEC
                              REDUCE B AND CONTINUE CHECK
0061
           DJNZ CMPR
                              NO MATCH SO RETURN TO CALLER
0062
           JR
                POP
                              RETRIEVE OLD STRING ADDRESS
0063 EXEC POP
                DE
                              RETRIEVE OLD RETURN ADDRESS
          POP
                DE
0064
                              ; LOAD NEW RETURN ADDRESS
                DE, 1D1EH
0065
          LD
           PUSH DE .
                              ; SAVE NEW RETURN ADDRESS
0066
                              ; MOVE TO NEXT VALUE IN STRING
           INC HL
0067
                              ; SAVE CURRENT STRING ADDRESS
           PUSH HL
8400
                              MULTIPLY CLS
0069
           ADD A,A
                              ; VALUE BY 16 TO
0070
           ADD
                A,A
                              ; CALCULATE THE
0071
           ADD
                A,A
                              ; COLOUR OFFSET
0072
           ADD
                A,A
                              ; IF RESULT NOT ZERO THEN SKIP
0073
           JR
                NZ,SKIP
                              ; IF ZERO INCREASE TO ONE
0074
           INC
                              ADD 127 TO GET GRAPHICS BLOCK
0075 SKIP ADD
                A,7FH
0076
     CLEAR SCREEN ROUTINE
0077
0078;
                              ; LOAD START OF SCREEN ADDRESS
0079
           LD
                              ; SET CURSOR POSITION
; LOAD START OF SCREEN PLUS ONE
                (7820H), HL
0080
           LD
0081
           LD
                DE,7001H
                               NUMBER OF BYTES TO MOVE
           LD
                BC,01FFH
0082
                               ; LOAD GRAPHICS BLOCK INTO HL
0083
           LD
                (HL),A
                               ; DO A BLOCK FILL OF THE SCREEN
           LDIR
0084
                               ; RETRIEVE STRING ADDRESS
           POP
0085
               HL
                               RETURN TO 1D1EH TO CONTINUE
           RET
0086
                               END OF PROGRAM MARKER
OOB7 ENDP DEFB O
```

## World Expo 88

BRISBANE, AUSTRALIA. APRIL 30-OCTOBER 30

#### 6

502 PRINT\*OPTIONS:-"

503 PRINT"1 ENTER STOCKFILE" 504 PRINT"2 END PROGRAM"

#### CONTROL PROGRAMME. STOCK

#### Part one. By Mr.David Martin.

David wrote this to help his father in his landscaping business. It is Public Domain and can still be improved upon. Perhaps YOU can adapt it for 505 PRINT"3 TO TOTAL THIS FILE" your own use. 506 PRINT 4 TO PRINT STOCKLIST 550 PRINT"CHOOSE OFTION (1-4)" 8 GOT050 555 PRINT"OR HIT (SPACE) FOR MORE OFTIONS" 10 REM SEARCH DN NO 560 IFINKEY\$<>""THEN560 12 FOR I=0 TO NO-1 570 IFINKEY\$=""THEN570 14 IF VAL (B\$)=OTHENNEXT 580 IFINKEY\$=" "THEN200 16 IF VAL(B\$)=A(I,4)THENRETURN 600 D\$=INKEY\$ 18 NEXTI 610 IFD\$<"1"ORO\$>"4"THEN560 20 RETURN 50 REM STOCKLIST VER 1.9 BY D MARTIN 22/8/86 620 I=VAL(0\$) 630 IFI=1THEN10000 70 CLEAR5000 640 IFI=2THENPP=10:60T08010 80 Bs="":6\$="":P\$="" 650 IF1=3THEN15000 90 L\$="== 660 IFI=4THEN19000 105 Z\$="ENTER PRODUCT:-" 1000 CLS 110 DIMA\$(150),S\$(150) 1005 IFNO=150THEN1070 115 DIMA(150,9) 1010 PRINTZ\$; 130 GOTO200 1020 INPUTB\$: IFB\$=""THEN200 150 IFP<OTHENA(I,N)=0:RETURN 1025 IFASC(B\$)>570RASC(B\$)<49THEN1030 160 IF P<>OTHENA(I,N)=P 1026 G0T02500 161 RETURN 1030 FORI=0TONO-1 200 CLS: Z=0 1040 IFA\$(I)=B\$THENZ=0 :60T02085 210 PRINT@B. "STOCK CONTROL" 1050 IFA\$(I)=""THENNO=NO+1:GOT01110 220 PRINT"OPTIONS:-" 230 PRINT"O PRINT REF CODES & SUPPLIERS" 1060 NEXTI 1070 PRINT"NO MEMORY LEFT" 240 PRINT"1 ENTER/CHANGE STOCK ITEM" 1075 PRINT@384, "PRESS ANY KEY TO RETURN TO MENU" 250 PRINT"2 VIEW ITEM DETAILS" 1076 IFINKEY\$<>""THEN1076 260 PRINT"3 DELETE OLD STOCK ITEM" 1077 IFINKEY\$=""THEN1077 270 PRINT"4 SALES" 1078 CLS: GOT0210 280 PRINT"5 ORDER STOCK" 1090 GOTD1075 290 PRINT"6 ENTER STOCK RECEIVED" 300 PRINT"7 PRINT ITEMS TO RE-ORDER" 1110 A\$(I)=B\$ 1112 PRINT@32, "PART # ";A(I,4);:INPLTA:IFA=OTHENA=A(I,4) 310 PRINT"8 SAVE STOCK FILE" 1114 FOR6=OTONO-1 315 PRINT"9 VIEW NAMES IN FILE" 370 PRINT"CHOOSE OPTION (0-9)" 1115 IFG=ITHENNEXT 1116 IFA(G,4)=ATHENPRINT"# IN USE ":60T01112 330 PRINT"OR HIT (SPACE) FOR MORE OPTIONS" 1118 NEXT: A(I, 4)=A 340 IFINKEY\$<>\*"THEN340 1120 PRINT@64, "AMOUNT IN STOCK "; A(I, 0);: INFUTP 350 IFINKEY\$=""THEN350 1122 №0:60SUB150 360 D\$=INKEY\$ 1140 IFA(I,0) (OTHEN1120 361 SOUND30,1 1160 PRINT@96, "AMOUNT ON ORDER "; A(I,1);: INPUTP 365 IFO\$=" "THEN500 1170 N=1:GOSUB150 370 IF0\$<\*0"DR0\$>"9"THEN340 1180 IFA(I,N) (OTHEN1160 380 I=VAL(0\$) 1200 PRINT@128, "RE-ORDER LEVEL "; A(I, 2);: INPUTP 385 IF1=0THEN 9000 1210 N=2:60SUB150 390 IFI=1THEN1000 1220 IFA(I,N) (OTHEN1200 400 IF1=2THEN2000 1230 PRINT@160, "W/SALE PRICE ";A(I,5);:INPUTP:N=5:GOSUB150 410 IFI=3THEN3000 1235 PRINT@192, "TAX RATE "; A(I,6)\*100; :INPUTP:P=P/100:N=6 420 IFI=4THEN4000 1236 GOSUB150 430 IFI=5THEN5000 1240 PRINT@224, "RETAIL PRICE ";A(I,7);:INPUTP:N=7:60SUB150 440 IFI=6THEN6000 1280 PRINT@256, "SUPPLIER: -"; S\$(I); 450 IFI=7THEN7000 1290 INPUT6\$: IF6\$<>""THENS\$(I)=6\$ 460 IFI=8THEN8000 1320 PRINT"ANY FURTHER NEW ITEMS (Y/N)" 470 IFI=9THEN12000 1330 IFINKEY\$<>""THEN1330 500 CLS 1340 IFINKEY\$=""THEN1340 501 PRINTEB, "STOCK CONTROL"

1350 Y\$=INKEY\$

1360 IFY\$="Y"THEN1000ELSE200

GOTO PAGE SEVEN.

```
2000 CLS: IFZ=999THEN3000
2005 I=99
2060 NEXTI
2075 INPUTW
2076 GOT0200
```

3099 A\$(I)=""

2010 PRINTZ\$;" DR NUMBER " 2020 INPUTB\$: IFB\$=""THEN200 2025 IFASC(B\$)>570RASC(B\$)<49THEN2040 2026 **60T0250**0 2040 FORI=OTONO-1 2050 IFA\$(I)=B\$THEN2080 2070 PRINT\*WRONG INFO ENTERED PRESS RETURN\* 2080 IFZ=999THEN3000 2085 CLS: K%=0 2086 IFI>=NOGOTO200 2087 IFIK0G0T0200 2090 PRINT"PRODUCT:-";A\$(I) 2100 PRINT"PART # ";A(I,4) 2110 PRINT"STOCK IN HAND ";A(I,O) 2120 PRINT"STOCK ON ORDER ";A(I,1) 2130 IFA(I,2)>A(I,0)THENA(I,3)=A(I,2)-A(I,0)-A(I,1)ELSEA(I,3)=0 2131 A(I,8)=(A(I,5)+(A(I,5)+A(I,6)))+A(I,0)2132 A(I,9)=A(I,7)\*A(I,0) 2135 IFA(I,3)<0THENA(I,3)=0 2137 IFK%=1THENRETURN 2140 PRINT"RE-ORDER LEVEL ";A(I,2) 2150 PRINT"RE-ORDER QUANTITY ";A(I,3) 2155 PRINT"W/SALE "; USING"\$\$####.##"; A(I,5); 2156 PRINT" +TAX"; USING"\$\$####.##"; A(I,5)+(A(I,5)\*A(I,6)) 2160 PRINT"RETAIL "; USING"\$\$####.##"; A(I,7); 2161 PRINT" -TAX"; USING"\$\$\$###\$.##"; A(I,7)-(A(I,5)\*A(I,6)) 2165 PRINT"SUPPLIER ";S\$(I) 2166 PRINT"TOTAL W/SALE"; USING \*\*\*\*\* . ## ; A(I,8) 2167 PRINT"TOTAL RETAIL"; USING"\$\$####, ##"; A(1,9) 2169 IFZ=9960T02175 2170 PRINT@352, "PRESS A) >> J) TO CHANGE." 2175 PRINT@384, "PRESS 1(w) FOR NEXT RECORD" 2176 PRINT@416, "PRESS MVVY) FOR PREVIOUS RECORD" 2180 PRINT@448, "ANY OTHER KEY TO RETURN TO MENU" 2190 IFINKEY\$<>""THEN2190 2200 IFINKEY\$=""THEN2200 2205 IFZ=9960T02215 2210 IFINKEY\$="C"THENCLS:PRINT"PRODUCT DETAILS:-"A\$(I):60T01112 2215 IFINKEY\$="N"THENI=1+1:60T02085 2216 IFINKEY\$="P"THENI=I-1:GOTO2085 2220 CLS:60T0200 2500 REM SEARCH ON NUMBER 2510 GOSUB10 2520 IFVAL(B\$)=A(I,4)THEN2080 2540 GOTO2070 3000 I=0:CLS:PRINTZ\$;" OR NUMBER" 3010 INPUTB\$: IFB\$=""THEN200 3020 IFASC(B\$)>570RASC(B\$)<49THEN3030 3022 GOT03500 3030 FORI=0TONO-1 3040 IFA\$(I)=B\$THEN3070 3050 NEXTI 3060 Z=999:60T02070 3070 PRINT"PRESS ( ) TO MENU" ANY OTHER KEY FOR MENU" 30B1 IFINKEY\$()""THEN30B1 3082 IFINKEY\$=""THEN3082 3083 IFINKEY\$="D"THEN3089ELSE200

3090 5\$(I)="" 3110 FORK=0T08 3120 A(I,K)=0 3130 NEXTK 3140 FORT=ITONO-1 3141 A\$ (T)=A\$ (T+1) 3142 S\$(T)=S\$(T+1) 3143 A(T,0)=A(T+1,0):A(T,1)=A(T+1,1):A(T,2)=A(T+1,2)3144 A(T,3)=A(T+1,3):A(T,4)=A(T+1,4):A(T,5)=A(T+1,5) 3145 A(T,b)=A(T+1,b):A(T,7)=A(T+1,7):A(T,B)=A(T+1,8)3146 A(T,9)=A(T+1,9), 3147 NEXTT 3150 ND=ND-1 3155 IFNO<1THENNO=0:60T0200 3170 Z=0: 60T0200 3500 REM SEARCH DN NUMBER 3510 60SUB10 3520 IFVAL(B\$)=A(I,4)THEN3070 3540 60T03060 4000 CLS:PRINTZ\$;" OR NUMBER " 4020 INPUTB\$ 4030 IFB\$=""THEN200 . 4032. IFASC(B\$)>570RASC(B\$)<49THEN4040 4034 60T04200 4040 FORI=OTONO-1 4050 IFA\$(I)=B\$THENCLS:GDTD4090 4060 NEXT I 4070 GDT02070 4090 PRINTA\$(I)," #";A(I,4) 4092 PRINT"TOTAL STOCK=";A(I,0) 4095 PRINT"ENTER NUMBER SOLD" 4100 INPUTA 4110 IFAKOTHEN4100 4112 IFA=OTHEN200 4115 IFA(I,0)-A<OTHENPRINT"區類原制的 量型型形態類型型型 ":60T04140 4120 IFA>A(I,0)ANDA(I,1)>OTHENPRINT"AWAITING DELIVERY OF ";B\$ 4125 IFA(I,0)+A(I,1)<APRINT"ORDER";ABS(A(I,0)+A(I,1)-A);"OF";B\$ 4130 A(I,0)=A(I,0)-A4135 PRINT"SOLD ";A;" ";A\$(I):K%=1:GOSUB2130 4140 PRINT"ANY OTHER STOCK SOLD (Y/N)" 4150 IFINKEY\$<>""THEN4150 4160 IFINKEY\$=""THEN4160 4170 IFINKEY\$="Y"THEN4000ELSE200 4200 REM SEARCH ON NUMBER 4210 GDSUB10 4220 IFVAL(B\$)=A(I,4)THENCLS:60TD4090 4240 CLS: PRINT"NUMBER NOT FOUND PRESS RETURN FOR MENU" 4250 INPUTVV: 60T0200 5000 CLS:PRINTZ\$;" OR NUMBER" 5020 INPUTB\$ 5030 IFB\$=""THEN200 5040 IFASC(B\$) >570RASC(B\$) <49THEN5050 5042 CLS:60T05500 5050 FORI=OTONO-1 5060 IFA\$(I)=B\$THEN5110 5070 NEXTI 5080 PRINT"PRODUCT NOT FOUND PRESS RETURN": INPUTFF: 60TO200 5110 PRINTA\$(I)," # ";A(I,4) 5115 PRINT"AMOUNT ALREADY ON ORDER ";A(I,1) 5120 PRINT"ENTER AMOUNT FOR ORDER" 5130 INPUTA

5150 PRINT"ORDER FOR ";A;" OF "

5140 IFAKOTHEN5130

## 

#### BY JEREMY LEE.

Hi. I am interested in running a competition for the VI-200/300 involving the programming skill of the user. To find out whether it is worth my while, I would like all who are interested to write to me or care of the club, (the addresses are below) and if enough people are interested, a rules notice will be posted out. If not, a notice will be posted in LE'VI. It's not too hard, and a entry fee of \$2 is required (after postage of rules with entry form).

Mr Jeremy Lee, c/o P.O. Box 221, ASHGROVE. QLD. 4050. AUSTRALIA or: Foclose a S.A.S.F. Enclose a S.A.S.E. C/O. Bob Jones, BVZUM, WYNNUM WEST. 4178. QLD. AUSTRALIA. 63 Tingalpa St.

#### \* WORD PUZZLE. \*

Here is a little puzzle to give you a rest from programming. There are sixteen words hidden amongst the letters. The words are of different length, mostly computer related and are printed in any direction. That is horizontal, vertical, diagonal and perhaps zig-zag fashion. The answer print in on page 12. Have fun.

_	_	_		_	_	_	_	_	_	_		_	_		
В	0	T	N	Z	S	Ι	F	Q	Ρ	В	Ħ	E	6	Ħ	CORRESPONDENCE
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I	P	Ε	X	Ρ	0	В	Ε	Ţ	Ε	U	0	В	R	C	FOOTBALL
N	I	F	J	D	Α	B	В	N	T	U	P	I	E	K	DEBUGGER
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J	Ε	Ε	I	6	L	Ε	L	N	S	6	Α	K	P	R	MAGAZINE
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6	I	Ε	J	I	N	L	A	6	F	S	X	6	N	T	journal
U	R	В	A	Ε	¥	L	J	X	Y	В	L	N	D	Ε	SKIING
L	Ŧ	L	Ħ	1	J	Ε	P	J	Q	γ	C	Н	Ε	P	PASCAL
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U	F	M	N	P	Ħ	R	Ţ	A	K	Ę	E	U	Ε	0	EXPO
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#### --- HINTS- HINTS- HINTS---

Mr David Garnsworthy invites readers to buy Goldsoft A\$4.50 per month from a Tandy store. The MC10 programmes convert easily. For the various graphics programmes, insert MODE(1). The ECB 32k programmes using text easily fit MODE(1). The ECB 32k programmes using text easily fit within 22k of a VZ.

Mr Ken Brazier advises that the early DSE Omnibus books do have some bugs printed in the programmes, but DSE have issued correction sheets. Ask your DSE store.

I would like to let folk know that the VZ Data Recorder audio cable with the two 3.5mm plugs on one end and a stereo plug on the other, can be purchased from Many electronics parts stores. In Brisbane they are available from Delsound Pty Ltd for \$2.95, with the ARISTA brand name.

#### GUICKERITE WORD

PROCESSOR V4.

EXTRA GOOD NEWS!!!

we will be releasing Version V4 in December. This does not mean that Version V3 is obsolete. as they are two Version V3 will still be current, different units. This is being printed with  $\bigvee$  4, hence the

different type face styles.

See our software on page 14 for pore details on V4. The main differences being that the user designs a library of type face styles and saves them to disc. The other is that the change of typeface style can be achieved any that in the text be achieved any hope in the text.

He hope to produce a VHS VIDEO demonstrating both V4 and V3, please let us know if you would like to view one.

Owners of V3 can purchase V4 at a discount price of ADD\$20.00. Otherwise the price is AUD\$40.00.

As stated elswhere, YOU have to familiarise yourself with the control codes of your printer. It is not possible for these to be printed in the QUICKWRITE MANUAL as there are quite a few variations. I have owned this Citizen 120-D printer for almost a year and I am still learning how to use

it.
For owners of V3, you will be receiving an "Upgrading Memo" shortly. There is a problem when using the older type printer interfaces. The printer control codes cannot be sent to the printer although the text is OK. If YOU are having this trouble, please let us or Mr.L.Milburn know about it, as I can assure you that it is really morthwhile griting

QUICKNRITE operating smoothly.

QUICKWRITE IS ONLY OBTAINABLE FROM US.
All discs are numbered and operating manuals have multicoloured printing.

> VSOFTWAREZ.  $J_*D_*$

#### \*\*\* CHRISTMAS MINI-EXPO.

As mentioned in my Editorial, I will be combining this with the BVZUN meeting in December. The date is Saturday the 5th. and the address: Capalaba State High School, School Rd. CAPALABA.

TIME 9 am.

to about 5 pm.

Bob Jones suggests that the usual BVZUW official part of the workshop should be wavered for the day.

All folk are welcome, whether an OOP, BVZUW member or a visitor. Even non-computerists will be catered for.
FREE ENTRY FOR ALL.

#### THERE WILL BE:

- A lucky door prize.
- A video recorder set up to demonstrate software and show
- some items that are not VZ related. About ten different VZ systems running.
- Continious software demonstrations.
- Software for sale at discount prices.
- Books and magazines for sale. A box of old hardware items for the taking. Voice sythesisers with talking VZs.
- Free and Public Domain software.
- An opportunity for all folk to sell VI equipment. Show and demonstrate your favourite item/s. Convenience store nearby for peckish folk.
- ¥
- Plenty of parking.
  \* \* And much more.

Contact me for details. John D'Alton. .

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"The Giant Book of Games".

"First Book of Programs".

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As series extension to my list of magazine articles, I have produced the following list of books (I have copies of all of the publications). The books relate to the VZ computer specifically, Microsoft BASIC Level II or the Z-80 microprocessors, series in the VZ200/300. Additionally, I hold additional technical information, ROM listings, Users Group article is on the same sheet nm the item article. buy back copies of the magazine from the distributor ..or.. Ë Finding where variables are stored by the VZ-200's BASIC. Problems with the X-7208 printer/plotter and Microsoft BASIC. Printing lower case and control characters um the VZ200/300. each 4 ٥ can supply copi=∎ FOR YOUR OWN USE ONLY at 20c. per sheet. FURTHER LITERATURE RELATING TO THE VZ200/300 COMPUTER "Introduction to Computing". DSE, 114 Interstate (Surface) Using the X-3245 TP-40 printer/plotter with the VZ-200 If Users wish to obtain copies of the articles referred <u>.</u>. Fixing the printer bug in the VZ Editor-Assembler. VZ-300 Mailing List tape to disk file conversions sheets "Getting Started". DSE, 121 Kindly add postage to your request as follows: Programming the VZ-200 computer's joysticks. \$0.36 \$0.55 \$0.75 \$1.00 \$1.90 The numbers in brackets are the number of Printing out System-80 screen graphics. (ii) borrow from your local library. expensive! i) contact mm for copies ..or .. TECHNICAL BULLETINS FOR VZ COMPUTERS Obtaining colour on the VZ300. \$0.36 \$0.50 \$0.90 \$1.45 \$0.65 the A dash (-) indicates that newsletters, software etc. BOOKS ON VZ COMPUTERS of Sheets bibliography, they may & System-80. 1983 1983 Hartnell, T., 19 46 Henson, T.L., of lot above. # 98 #111 #114 88 91 92 93 **4661555**  $\overline{}$ Personal Computer News (UK) The Art of Programming - Progress. (Hjaltson) Personal Computer Games VIII XI XII XIII XIV XVI It takes all sorts - sorting. (Liardet) Comment on distribution sort. (Riordon) (Overaa) The basic art - algorithms, structures. (Overaa) (Oversa) (Overaa) (Overaa) ΙX ΛX (Overaa) (Overaa) Pick a number - arithmetic. (Liardet) Electronics Today Micro Choice (UK) Part Comment on binary search. (Lamich) Sorting out the sorts. (Jankowski) International (Coles) 280 uncovered. (Garland) Understanding Assembler (Bell) More uncovering 280. (Dennis) Pt. Pt. Micro-80 Teach yourself assembler -280.Sort at input. (Ithell) ETI (8080, 280, 6502) M80 PCG PCG Extra Z80 opcodes. Letter. (Kennedy) PE Micro-file #3 (8080) (Liardet) Australian Electronics Monthly YC. Australian Personal Computer βy Australian Home Computers Sumper Book of Programs Creative Computing (US) Computer Fun and Games Australian Photography Amateur Radio Action Bits and Bytes (NZ) GENERAL PROGRAMMING 3/1-3/5 171-173 122 - 124103 - 109170-171 23-126 110-116 102-104 145-151 98-109 99-101 57-64 89-98 107-8 45-46 93-97 52-55 87-89 53-60 79-87 93-94 61 - 6464-66 61 - 6361 - 6262-68 3-85 74-77 Amateur Radio Break In (NZ) 44 APC APC YC AHC APC APC APC APC APC APC APC APC 86 85 85 85 85 85 85 84 84 84 84 84 84 Jan/Feb83 Mar. Oct. Nov. Aug. Feb. Apr. Jan. Mar. Jun. Feb. Jul. Nov. Dec. Oct. Nov. Apr. Jul. Aug. Jul. Mar. Apr. May Jun. Sep. May Jun. Sep. Jan. Feb. Mar. Apr. Jun.

#### \* \* POKING EXTENDED BASIC ■ COMMANDS.

#### BY Gordon Browell.

If you have not obtained or do not wish to use either of the special EXTENDED BASIC units, ie TU6 or TU10, then these methods can be used. One of them man used in Bioplot sent in by Mr Davis of Mildura which was printed in \$13 of LE'VZ. The command used was <ON GOTO>.

(J.D.)

#### \*\*\* IN BRIEF. \*\*\*

TELECOM is no longer selling its Computerphone because projected sales figures were never reached.

Sophisticated software will help eighteen Australians participate in one Australian Bicentennial project. Tim McCartney-Snape, Jon Chester and several Army climbers will tackle Mount Everest.

The Grand Prix Office for the Adelaide leg of the big car race in November will use an accommodation system running am a Hewlett-Packard 3000.

Australian "hackers" succeeded in penetrating top secret European computer systems, as well as Nasa, Prime, and General Motors systems.

#### \* WORD PUZZLE ANSHERS.

S	C		M	A	G	Α	Z	I	N	Ε	F	В	C	Q	
K	0		N	0	В	В	I	R		0	1	Ε	0	U	
I	M	ŋ	N	I	T	0	R	D	0	C	R	J	R	I	
I	Ρ	Ε	X	Ρ	0	В	Ε	Ţ	Ε	u	0	В	R	C	
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		0											N		

Suppose you wanted to was MEM. This is the command for returning the ancunt of unused memory. Following are three methods of putting the TOKEN for MEM into a program. As MEM must be preceded by the command FRINT the address for FPINT must be 31469, therefore MEM must be POKED into 31470. To do this we reserve that address by typing in a DUMMY CHAPACTER before making the POKE. The DUMMY CHAPACTER used here is the HASH sign, #.

#### FIRST LINE METHOD

10 PRINT# (RETURN)
POKE31470, 200 (RETURN)

When LISTed line 19 appears as...10 PRINT
The command is invisible but the token for MEM is in
place and when FUN will give the unused memory space.

#### GOSUB METHOD

MEM in the first line may be inconvenient. This method lets you use MEM anywhere in your program. The line to receive the token must be entered first, as...

20 PRINT# (RETURN) POKE31470, 200(RETURN)

Now enter...

10 GOTO100 (RETURN) 30 RETURN (RETURN)

Line 100 now becomes the true beginning of the program and GOSUB20 can be used anywhere, whenever MEM is required.

#### PEEK ADDRESS METHOD

To put MEM anywhere in a program requires the determining of the EXACT address. While m program is being entered, at the spot where MEM is required, enter the dummy character #.

The program should be correct up to this point. Let's assume the last line of the incomplete program is...

130 CLS:PRINT"MEMDR";:#
Now enter directly the following...

PRINTPEEK(30969)+256\*PEEK(30970)-40

The number returned is the address of #.

POKE this number with 200 (for MEM). If the number is greater than 32767 subtract 55576. You can now continue entering your program from the NEXT lice number. Care must be taken not to overwrite the invisible MEM.

#### VeeZed INVISIBLE COMMANDS

RANDOM 10 # FOKE31469,134
Reseads END(n) to give a different series
of RANDOM numbers.

DEFINT 10 8A,B FOKE31469,153

Defined all variables beginning with A and B

INTEGERS.

DEFSNG 10 4C,D POKE31469,154
Defines all variables beginning with II and D
III SINGLE PRECISION (6/7 floating point).

DEFDBL 10 %E,6 POKE71469,153
Defines all variables beginning with E and F
as DOUBLE FRECISION (16/17 floating point)

O NAGOTO100, 200, 300 PDKE31469, 161

DNAG05UR100, 200, 300 FOKE31469, 161

ONERROR60T01000 ON = POKE31459, 161 10 \*\*60T01000 ERROR = POKE31470, 158

RESUME 10 # POKE31469,159
After ERROR return to error point.
10 #100 POKE31469,159

After ERROR SOTO100.
10 #100NEXT POKE31469,159
After ERROR return to line AFTER error point.

AUTO 10 # POKE31469,183
Automatically prints line numbers beginning at 10 incrementing by 10s.
10 #100,10 POKE31469,183

Automatically prints line numbers beginning at 100 incrementing by 10s.

NOTE: If AUTO is halted by BREAK, POYE30945,175 to restart AUTO from where it was halted.

VARPTR 10 #(X) POKE31469,192
Used to locate Memory Address of a variable.

STRING\$ 10 PRINT#(12,45) POYE31470,196 Will PRINT 12 Asterisks (ASCII 45). Maximum length of string is 256 characters.

MEM 10 PRINTE PCKE31470,200 Returns the amount of unused memory.

FRE 10 FRINT#(A) POMETI470, 218
Returns the number of unused BYTES.
10 PRINT#(A\$) POKETI470, 218
Returnd the number of unused BYTES in the reserved String spaces.

CINT 10 #Z POFE31469,239
Removes all digits after the decinal coint.

CSNG 10 #Z POYET1440,240
Converts numeric variable from COUBLE to
SINGLE PRECISION.

CDBL 10 #Z PCKE31469,241 Converts numeric variable from SINGLE to DOUBLE PRECISION.

FIX 10 A=#(n) POYE71472,242
Removes all digits to the right of the decimal point. Does not round-off negative numbers.

ERL 10 PRINT# POKE31470,194
Returns the line number from which m program
branched to ERROR routine.

ERR 10 PRINT# POKE31479,195
Returns value related to type of ERROR.

POS 10 A=#(X) POKE31471,220
Returns current CURSOR position.
(X) is dummy argument.

#### To help me time-wise to make LE'V2 a better magazine, and yourself to get the most out of it, please read this page.

ALL PRICES are in Australian Dollars.

CURRENT ISSUE price is A\$2.00 which includes surface/air postage within Australia and Air Mail to New Zealand. If you require more than one copy at one time, extra money must be sent to cover postage.

LE'VZ IS (C) COPYRIGHT.

HEW MEMBERS must start by sending \$4.00 as I do not charge a yearly subscription. This makes it worth while entering your name, address and other data into our D'BASE. You then receive the current issue if it is in a certain time period between the main send LE'VZ runs. If that is close to the next issue, you will recieve that and not the "old" current issue. New Members can send more than \$4.00, as long as it is in multiples of \$2.00.

Present OOPs have their \$ credit printed at the top of their name and address label if sent in the main run. If your credit is less than \$2.00., then a little reminder slip is included with the LE'VZ sent, stating that this is your last issue. Some folk have various money amounts left over from other software or hardware purchases put into their LE'VZ credit, and so odd \$ amounts do occur.

are from #8 to the current issue. The price is \$3.00 each. This includes surface/air postage within Australia and Air Mail to New Zealand. If you require more than two copies at one time, extra money must be sent to cover postage.

We usually have most Back Issues in stock. We send what we have and back order the others for you if required. If they are not sent within a couple of months, or with the next Current issue, please remind us.

GENERAL LIST refers to OOPs who want their name, address and data made available to other OOPs when asked for. You may like to contact OOPs in your state, or OOPs with VIZOOs. Not all OOPs want their name and information made public, so if that applies to you, you must answer N (no). IF YOU DO NOT WANT YOUR INFO MADE PUBLIC, ANSWER N (no) ON THE DATA SHEET. IF YOU DO NOT ANSWER Y (yes) OR N (no) THEN YOU WILL AUTOMATICALLY BE PUT ON THE GENERL LIST.

Remember, you may receive letters from OOPs months after you may have sold your VZ.

ANY COMMUNICATION to me that requires a written reply must be accompanied by a Self Addressed Stamped Envelope. Do not expect an immediate reply, as I may need to contact others to formulate an

Always state your record number. That could be between AO2 and A98, BO1 and B98 or CO1 and CXX. I have about 240 financial and unfinancial folk to keep track of. From LE'VI #15, your record number and \$ credit are printed at the top of your name and address label.

#### DO NOT TELEPHONE HE ON SUNDAY!!!

CIRCUIT, ROM and PROGRAMME LISTING PRINTOUTS can be sent to you at 20C per A4 page plus postage. Do not ask for the complete VZ ROM listing as it is very long and is about 15MM in thickness.

LETTERS TO THE EDITOR are welcome either as general comments, complaints or asking for help. As with contributors, please ensure that your typewriter or printer prints clear and DARK. In the new 35 character normal size print, IE. 90MM line length, right justified or wragged. If you have to write by hand, use a RED pen and write in the format just mentioned.

ADVERTISING is a free service to OOPs who are financial, for personal use only. Please use the above 35 character format. About 100 words or less.

CONTRIBUTIONS are very welcome. Please write your letter on a separate piece of paper to your contribution, which allows separate filing of material. You can send in programme listings in M/L or BASIC. Hardware modification or equipment drawings. Hints and any useful information. As above, use the new 35 character format except if it is a large circuit, drawing or photo. If it is a full page contribution reduce by photo copying so that there is a 20MM margin all the way around all the way around.

In fact I would like to receive more hardware contributions. Also photos of your equipment would interest others. There is a little problem here though as different photo copyiers reproduce certain colours differently. We can but try.

BASIC AND M/L PROGRAMME LISTINGS need special requirements.

Programme listings in M/L or BASIC can be sent as printed in normal size print which I can reduce-copy to make the master. Please make sure the print is dark and clear. The better approach is to send the programme on disc or tape. This enables me to give it a short test and check that it does at least does RUN. I can then print it in reduced mode while (LISTing) it.

TAPE/DISC CONTRIBUTIONS are therefore the best to send in this regard. This applies to programme listings or text. In regards to text, please send on E&F Wordprocessor tape which I can convert to QUICKWRITE Wordprocessor files or QUICKWRITE files on disc. Send in a padded post bag, and we will return it to you as soon as possible. We will pay the return postage. In this way if if it is a programme, it can be later issued as a PUBLIC DOMAIN programme. You must let me know if you will allow this to happen.

VPROGRAMMEZ-VHINTZ-VHARDWAREZ book. People have suggested that I print a second book. Please let me have permission in MRITING if you would like any of your contributions included in it.

Finally, I do not promise to print any or all contributions, this is at my discretion.

#### INFORMATION CONTACTS.

Here are some other folk who you can contact. Always include a SASE. if you require a written reply. If you don't live in the same country, send a couple of International Reply Coupons. These are available a Post Offices througout the world. Please use good judgement if you telephone, perhaps not on Sundays. Check with the person concerned.

Graphics, M/L, printer info, educational.
Mr.Larry Taylor, 4 Columbia Court, SPRINGWOOD. QLD.
4127. 'phone (07) 208 1258.

#/L, hardware, BASIC programming and his special list of all types of info.

Mr.Bob Kitch, 7 Eurella St., KENMORE. QLD. 4069. phone (07)378 3745.

Software list.
Mr.Eddie Tomes, 3 Kilkenny St., CAPALABA. QLD. 4157.
'phone (07)390 2797.

Printer/Plotters. Mr.Stan Noble, 307 Mt.Crosby Rd., CHUWAR. QLD. 'phone (07)395 5140.

Communications, Hodems, RTTY. Mr.Irving Spackman, 78 Waima Crescent, TITIRANGI. AUCKLAND. New Zealand.

RTTY Units. Mr.Col Paton. VK4BCP. 225 Pallas St., MARYBOROUGH. QLD. 4650 phone (075)221 090.

Chip 8 programming. Mr.Jeremy Lee, c/o P.O. Box 221, ASHGROVE. QLD. 4060 'phone (07)379 7988.

> that every man should eat and drink, and enjoy the good of all his labour, it is the gift of GOD.

## \* SOFTWARE FOR SALE FROM

QLD. 4066. AUSTRALIA. (07) 371 3707. 39 Agnes St., TOOWONG.

#### NOVEMBER. 1987.

All prices are correct at time of printing, but may change without notice.

All articles available while stocks last. All prices in A\$.

All tape software includes postage up to four tapes.

When ordering software, always state := which computer VZ200 or VZ300, if you have an expansion RAM unit, and if you have a disc drive system connected on denote as held. or denote as below.

VZ1 = unexpanded VZ200. VZ3 = expanded VZ200. VZ2 = unexpanded VZ300. VZ4 = expanded VZ300.

IE. TB15 = Tape only unit of B15. DB5 = Disc only unit of B5.

T/DE4 = Tape or Disc unit available of E4. TU4 = unit only available on Tape
of U4. DU22 = unit only available on Disc of U22.

The price stated is for a Tape unit. If a Disc unit is required, add \$5.00.
to the Tape price. The price of a Disc unit is as stated.

We accept BANKCARD and VISACARD, as well as bank, building society, credit union, private cheques, or Aust Post money orders.
Make cheques payable to J.D'ALTON or VSOFTWAREZ. Make cheques payable to

#### \* \* \* NEW SOFTWARE \* \* \*

DU56. DISKOPS4. \$10.00. VZ3-VZ4.
This is actually called DISKOPS4 + 2. It superceedes DU47 DISKOPS2 AND DU47A

DISKOPS2 which are now Public Domain at the same price of \$10.00.

There are three separate utilities on the disc, and are for use with the DSE. Editor Assembler unit. There are eleven additional commands. Instructions are included. DISKOPS4 + 2 patches in permanently with ED/ASS. It then allows LOADing, SAVEing of source code and BSAVEing object code to/from disc. BSAVEing is the same as TO: for tape.

It also includes the normal disc BASIC commands. If a disc error occurs,

then DISKOPS4 + 2 BASIC is entered. ASS is to enable the return to the ED/ASS. BASIC does the reverse.

Users of DISKOPS1 and 2 are also catered for.

DB57 QUICKWRITE V4 \$40.00. VZ3-VZ4.
This new version DDES NOT replace QUICKWRITE V3. The main difference being that V4 allows the user to imbed special character codes ANYWHERE in the text.

This includes a single word or even part of a word, anywhere in a line of text.

If you refer to LE VZ #17 on page 14, I printed a short article about how to use the printer control codes for QW V3. The last one directs the printer to print in three styles, using thirteen codes. With QW V4 these are designed by the user and are represented by A SINGLE CODE CHARACTER and saved onto disc. A whole set of fonts can be built up by the user. I have been testing it for some months now and you should have seen some results in LE'VZ #17.

QW V4 will also recognise the QW V3 square bracketed control codes. Printing

a section of the text is also allowable, even one word.

KILL and RETRIEVE are additional Disc commands. Better editing/viewing facilities. Scrolling forward, backward, to beginning and end of text is easy to achieve.

Purchasers of QW V3 can buy QW V4 at a discounted price of AUD\$20.00. An instruction booklet is of course included.

QUICKURITE IS ONLY OBTAINABLE FROM US.

If anyone requires a short description of any of our software, please refer to previous LE'VZs as all software is initially given a brief description as NEW SOFTWARE. The alternative is to send for our catalogue, WHISTA Make sure you send a S.A.S.Envelope, 230MM x 100MM.

I would like to mention that a BASIC COMPILER and some other very interesting software is available by sending a S.A.S.E. to:-Mr.Gavin Williamson, 20A Brunker Rd., BROADMEADOW. NSW. 2292 'Phone (069) 621 678.

#### --- HELP - HELP - HELP ---

Mr Leslie Milburn would like someone who can assist in or write a PASCAL or C compiler. Mr Leslie Milburn, 11 Swordfish Ave, RABY. NSW. 2566. Phone (02)603 5981.



+ EXISTING SOFTWARE. +

ı							
l	D /TT1/2	EDITOR/ASSEMBLER		20.00.	U73-	U74.	
l	D/TU2	ENTINY ASSETIBLES	P	20.00.	U73-	117 A	
ŀ	D/TB1	CASH BOOK LEDGER		20.00	VZ3-	VZ4.	
ı	TU4	COLOUR GRAPHICS	\$		-		
ŀ	D/TE1	KEYBOARD	\$			VZ4.	
l	D/TE2	WORDMATCHING	1	Deleted			
ı	D/TE3	MEATPIES	\$	10.00.	VZ3-	VZ4.	
ı	D/ 163	UTILITYS	š	15.00.	V77~	V/4.	
ı	D/TU3	UTILITIE DEACTE		10.00.		U74	
ł	TU5	WEAVING DRAFTS			VZ3-	U7/	
l	D/TE4	MATHS COUNTDOWN		10.00.	VZ-5"	V L 4 .	
ļ	D/TE5	COORDINATES	\$	10.00.	VZZ-	VZ4.	
l	D/TE6	TOWER of HANOI	\$	8.00.	VZ1-	·VZ4.	
l	D/TE7	MICROSCOPE	\$	8.00.	VZ3-	-VZ4.	t
Ì	D/TE8	BLOCK PUZZLER	4	10.00.	U71-	-U74.	
۱	V/ 150	DUIGN I GETTER	ž	10.00.	U71.	-U7A	
ı	TE20 TE24	PLUS and MINUS	7	10.00	V/1	117.6	
١	TE24	MATHS	*	15.00.	A7:2-	-V.4.	\$
١	TE25	QUEENSLAND	\$	10.00.	VZ1-	V24.	
I	TE27 TE30	EUROPEAN CAPITALS	\$	10.00.	VZ1-	-VZ4.	
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ı	DB4	LE'VY D'BASE	\$	78.00.	. VZ3-	-VZ4.	
ı	TB15	DATABAGE-U7	4	25.00.	V73	-VZ4.	
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l	TG35			12.00			
ı	TU6	VZ EXTENDED BASIC	. 3	20.00	ATT.	-VZ4.	
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1	TADG38	WORDSQUARES.	9	10.00	. VZ2	-VZ4.	:
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ı				15.00	. U72	-VZ4.	
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1	T/DG41	SCOTLAND YARD 2.	- 3		. VLU	Arte	1
1	DB5	LE'VZSTATEMENT.	:	185.00	. VZ4		
	DB16	CHEQUE LEDGER D.		\$ 60.00	. VZ3	-VZ4.	
	D/TI119	COPY/PROTECT.	5	\$ 30.00	. VZ1	-VZ4.	
	DU20	DISC GUARD.	9	\$ 60.00	. VZ1	-VZ4.	
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ļ	D/TU48	FILESEARCH.			1170	1177	
į	D/TG51	BLOCK 1.		\$ 15.00	• YZZ	-YZ4.	•
;	DPD1	PUBLIC DOMAIN.	1	\$ 10.00		-VZ4.	
	DPD2	PUBLIC DOMAIN. PUBLIC DOMAIN.		\$ 10.00	. VZ1	-VZ4.	
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## \* NEW SOFTWARE \*

\$ 17.00. VZ3-VZ4. D/TG44 MONOPOLY. \$ 19.50. VZ4. \$ 15.00. VZ3-VZ4. \$ 40.00. VZ3-VZ4. D/TG45 MONOPOLY. D/TG50 ESCAPE RIVER. D/B46 QUICKWRITE. \$ 10.00. YZ3. DISKOPS1. DU47 \$ 10.00. VZ4. DU47A DISKOPS2. D/TG42 AIRTRAFFIC CONTROLLER.\$20.00, VZ3-VZ4.
D/TG43 LEARJET. \$ 20.00, VZ3-VZ4. D/TG43 LEARJET. \$ 20.00. VZ3-VZ4. \$ 7/049 VZ-EPSON PRINT/PATCH. \$ 15.00. VZ1-VZ4. \$ D/TG54 GOLF. \$ 15.00. VZ3-VZ4. VZ3-VZ4. CONVERT2 \$ nil See DB46 QUICKWRITE.
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D/TG52 SOLO BATTLESHIPS. \$ 15.00. VZ2-VZ4.
D/US6 DISKOPS4 +2. \$ 10.00. VZ3-VZ4.

\$ 40.00. VZ3-VZ4.

QUICKWRITE V4.

DB57

### USERS WORKSHOP.

NORKSHOP HELD ON THE 1-8-87. He were pleased to welcome 3 new faces to our workshop

We were pleased to welcome 3 new tates to our worksnop which brought our attendance to 10.

Jeremy Lee, who is one of our regular members, demonstrated his program called "ANIMATION". He wrote this program specifically to enter a competition being held by Griffith Univeristy for their open day. The program illustrates some of the computer systems commonly in use today. I have since learnt that Jeremys' program took out the \$150 first prize in this competition, congratulations leremy. Anyone wishing more infomation on Jeremys' program Jeremy. Anyone wishing more infomation on Jeremys' program can contact him through our Co-ordinator Bob Jones, 63 Tingalpa st., Wynnum West, QLD, 4178. Phone (07) 376 0376, or c/o P.D. Box 221, ASHGROVE, QLD, 4060, PHONE (07) 379 7988.

Mr. & Mrs. Shannon, who were attending for the first Mr. & Mrs. Shannon, who were attending for the first time, presented the workshop with an interesting problem, they had been using their VI to store the titles of their C.D. (Compact Disc) collection, however the small program that they were using was not able to "alphabetise" their list, so Larry Taylor set to work on the Dick Smith "DATA BASE" with his "DISK DOCTOR" and after a short time, he was then able to list the program and modify it to the point where it would accept the C.D. data. Larry has since done further modifications to this program which speed it up considerably.

HORKSHOP HELD ON THE 5-9-87.

Our attendance was again 10 and we were all pleased to hear from Bob Jones that he has negotiated a 50% reduction in the fees for the class room that we use for the workshop, a welcome exception to modern trends.

Thanks also to John Benfer for arranging with SPENCERS OFFICE AUTOMATION for a substantial discount on several Brother M1109 dot matrix printers, \$410 each plus \$35 for

pin feed.

We were very fortunate to welcome Mr. Irving Spackman to our September workshop, Irving is a lecturer at the Auckland Teachers Collage and also an amateur radio operator, so we were delighted when he accepted our invitation to address the meeting.

Irving first used the VI in connection with his radio interests and now also uses it for satellite tracking, he also remarked that the VI outperformed a few well known computers in this field. Many thanks Irving for an extremly

interesting address.

HORKSHOP HELD ON THE 3-10-87.

With an attendance of 9 we started our meeting with John D'Alton outlining plans for a "MINI VZ EXPO" in December. John is hoping to hold the EXPO at CAPALABA STATE HIGH SCHOOL in conjuntion with the "BVZUW" monthly meeting. Bob Jones made the suggestion that a "BVZUW MEMBER PROFILE" be included in our monthly report, so hopefully this should commence with our next report. Bob also proposed that we start a software library so that members can become

that we start a software library so that members can become familiar with the many pieces of software that are now available for the VZ. It will also help members to choose the best software for their needs before making a purchase. Many thanks to Larry Taylor for endorsing this proposal by making his software available to the workshop. Recently, while on a trip to Coffs Harbour, Eddie Tomes paid a visit to their local electronics store, (Coffs Harbour Electronics). They are not a Dick Smith store, however they do sell the VZ 300. Apparently each unit they sell has to be slightly modified to cope with local power supply fluctuations. supply fluctuations.

Demonstrations were the order of the day for the rest of the meeting, I gave a small demonstration of the Hunter Valley VZ User Groups E & F word processor patch, this excellent piece of software, converts the tape version of the E & F word processor to full disk control, (currently selling for only \$10. from H.V. VZ U.6.). Next Larry demonstrated the Laserlink D.D.S. V 2.0 EPROM that he had just installed in his disk controller. This eprom gives an extra 11. D.O.S. commands as well as decreasing loading time by approximately 25%, (\$35. from LASERLINK). Larry then demonstrated his A.E.M. 4505 VOICE SYNTHESIZER. John D'Alton gave a further demonstration of QUICKWRITE WORDPROCESSOR V.3 so that we contributors to LE'VZ can use it efficiently. John donated this W.P. to the BVZUW some time ago and is for general use by members.

So as you can see we had a very interesting and informative afternoon. Thats all for now.

JOHN WILKINS.

P.S. Along with other famous faces the VZ now makes regular appearances on "A COUNTRY PRACTICE". Spotted by a keen eyed Eddie Tomes.

#### VZ OOPS IN NEW ZEALAND ON GENERAL LIST.

This is a list of New Zealand OOPs who are on the General List. You can contact these if you wish but always enclose a Self Addressed Stamped Envelope in your letter if you require a written reply. If you telephone, please do so at a reasonable hour and perhaps not on Sunday.

Hr John Ramsden. 9 Conley Drive, HAMILTON.

No 'phone #. Mr T.J.MC.Leod, 132 George St.,, INVERCARGILL.

Ho phone #. Hr Vinod Patel, P.O. Box 793, MATMETA,

Ho 'phone #.

Mr Peter Hill, P.O. Box 1972, CPO. AUCKLAHD.

'ahone #.

Mr John Mason, 59 Lancaster Rd., BIRKDALE. 'phone 437 318.

Mr Iving Spackman, 78 Waima Crescent, TITIRANGI. AUCKLAND. No 'phone #.



#### Date ...... This LE'VZ number 18. Surname...... Mr, Mrs, Miss and Christian name...... Telephone number. STD( )...... Onto General List Yes/No..... Computer. VZ200 and/or VZ300.....Any other computer..... RAM Expansion......K. Tape recorder. VZ DTR or other..... RS232 terminal..... Yes/No......Modem Yes/No...... Brand..... Interest. Business, games, M/L, BASIC, hardware, etc.....

\*\*\*\*\* DATA SHEET \*\*\*\*

OOPs request a! (Oners-Operators-F ogrammers) complet:, cut out and send back to me. As mentioned elsewhere in this LE'VZ, this is useful for ODPs who may like to contact other OOPs who live in their vicinity, etc. Answer N (No) if you do not wish your name put on this General List. If the answer is Y (Yes) or not answered at all, you will be put on the General List.

#### HARDVARE AND FIRMWARE FOR SALE.

VSOFTWAREZ, 39 Agnes St., TOOWONG. QLD. 4066. AUSTALIA. 'Phone (07) 371 3707.

Unlike our software prices, these do NOT include postage. Always include extra money with your order and we will send any surplus back in the parcel or put it towards any credit you may wish, such as to LE'VZ, if you are an OOP. If you wish to receive LE'VZ, read page 11.

Prices are in Australian dollars (AUD) as at the 1st. of

Prices are in Australian dollars (AUD) as at the 1st. of November 1987. Items available while stocks last. There is NO WARRANTY on used items, but all are tested OK.

NATIONAL tape recorder

used \$ 20.00.

16K RAM Pack used \$45.00.

VZ200 rubber membrane keys new GP100 Printer. Good condition. used to lank tapes new Floppy discs NASHUA DDSS new \$18.00 for five. \$18.00 for ten, bulk, so they are not in packs.

VZ 300 Disc Drive used \$250.00.
VZ Disc Drive power pack. used \$20.00.
VZ Disc Drive Controller used \$50.00.
16K RAM Pack with VZ200/VZ300 changeover switch used \$60.00.
Printer interface used \$25.00.

CITIZEN 120-D Printer new sales tax.

\$490.00 including

We are now Agents to sell this printer. It is the best printer in its price range. As you can see elswhere in this LE'VZ, I have printed just a few of its printer/font styles.

Its recommended price is \$586.00 s/tax included. There is a 12 month warranty, backed up by DATATRONICS who are in most capital cities in Australia, so if problems should occur, the unit need only be sent to the nearest centre. Cartage costs are of course extra, paid by the purchaser, so include about \$20.00. for this.

BOOKS.

VPROGRAMMEZ-VZ-VZ new \$ 18.50 each.
Surface postage in Australia and NZ is included.
This is my own special book for beginners and advanced
VZers.
BASIC Easier and Faster TRS80 new \$ 10.00 each.
By Lewis Rosenfelder.

#### OTHER VZ USER GROUPS & CLUBS.

#### AUSTRALIA,

AD LIB Vee Zed MICRO. Mr.Gordon Browell, 13 Brooks St., BIGGENDEN. QLD. 4621.

Z USER.

Hr. Hark Harwood, P.O. Box 154, DURAL. HSW. 2158.

VZ DOWN UNDER. Mr.George Seegie, 5 Cameron Court, WANTIRNA. VIC. 3152.

HUNTER VALLEY VZ USERS GROUP. C/O P.O. Box 161, Jesmond. JESHOND. NSH. 2299.

MAVZ ENTHUSIASTS GROUP. Mr.Graeme Bywater, P.O. Box 388, MORLEY. MA. 6062.

#### NEW ZEALAND.

CHRISTCHURCH VZ USERS GROUP. Mr.Daniel Ayers, 188 Langdons Rd., CHRISTCHURCH. HZ.

VZ LIMK. Mr.Peter Hill, P.O.Box 1972 C.P.O. AUCKLAND. NZ.

#### COMPLETE VZ SYSTEM FOR SALE.

Mr. and Mrs B.S. Colbert need to sell their entire setup as they have changed to a Commodore C64 because their friends all have C64'S. I wish them cheerio and thank them for their being OOPs for the last year or so.

The system is:VZ300, 16K RAM Pack, Disc Drive System, Joysticks, DSE. Data
Recorder, Printer Interface and lots of software.
\$400.00 the lot. They would prefer not to break up the
system to sell, but as one lot.
Their address is:-

P.O. Box 299, STAWELL. VIC. 3380.. PHONE (053)582 833.

